

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (cancel)

Claim 2 (previously presented): The method of claim 8, further comprising:

tracking a potential communication associated with said at least two wireless transceiver interfaces;

arbitrating control of communication between said at least two wireless transceiver interfaces based on the priority information and the potential communication; and

selectively energizing each said wireless transceiver interface based on the control of communication.

Claim 3 (cancel)

Claim 4 (previously presented): The method of claim 8, further comprising prioritizing each said wireless transceiver interface based on a first criterion indicative of an overhead associated with a potential communication for each said wireless transceiver interface.

Claim 5 (previously presented): The method of claim 8, further comprising prioritizing each said wireless transceiver interface based on a second criterion indicative of an amount of data associated with a potential communication for each said wireless transceiver interface.

Claim 6 (previously presented): The method of claim 8, further comprising prioritizing each said wireless transceiver interface based on a third criterion indicative of a power consumption associated with a potential communication for each said wireless transceiver interface.

Claim 7 (cancel)

Claim 8 (previously presented): A method comprising:

querying a controller to acquire a channel lock for communication via a first one of at least two wireless transceiver interfaces;

in response to an indication from the controller, gaining ownership of the channel lock based on priority information of the at least two wireless transceiver interfaces; and

opening a communication channel for a communication session associated with the first one of the at least two wireless transceiver interfaces.

Claim 9 (original): The method of claim 8, including releasing the ownership of the channel lock when the communication session is finished.

Claim 10 (previously presented): The method of claim 9, including transferring the ownership of the channel lock to another one of the at least two wireless transceiver interfaces when said communication channel becomes available for another communication session through time slicing.

Claim 11 (previously presented): An apparatus comprising:

an antenna;

a first communication interface coupled to the antenna corresponding to a first wireless device;

a second communication interface coupled to the antenna corresponding to a second wireless device; and

a module operably coupled to the first and second communication interfaces to disable communication between the first communication interface and said first wireless device while the second communication interface is conducting communication for said second wireless device.

Claim 12 (previously presented): The apparatus of claim 11, wherein said first communication interface to provide a first activity signal, said second communication interface to provide a second activity signal, and said module to:

detect the first and second activity signals, assign a priority to each said first and second wireless device, track a potential communication associated with each said communication interface, and to arbitrate control of communication between the first and second communication interfaces based on the priority and the potential communication corresponding to said first and second wireless devices; and

selectively energize at least one of the first and second communication interfaces based on the control of communication.

Claim 13 (previously presented): The apparatus of claim 11, wherein said module to:
determine a type of and assign a priority to each said wireless device;
derive device characteristics and priority information from the priority and the type of each said wireless device; and
send said device characteristics and priority information to each said communication interface.

Claim 14 (previously presented): The apparatus of claim 11, wherein each said communication interface to:
query said module to acquire a channel lock for communication via the corresponding wireless device;
in response to an indication from said module, gain ownership of the channel lock;
open a communication channel for a communication session; and
release the ownership of the channel lock when the communication session is finished.

Claim 15 (previously presented): The apparatus of claim 14, wherein said module to:
transfer the ownership of the channel lock to another one of the first and second wireless devices when said communication channel becomes available.

Claim 16 (canceled)

Claim 17 (previously presented): The article of claim 19 further storing instructions that enable the processor-based system to:
detect activity signals from the at least two wireless transceivers;
assign a priority to each said wireless transceiver;
track a potential communication associated with at least two of the wireless transceivers;
arbitrate control of communication between the at least two wireless transceivers based on the priority and the potential communication; and

energize one of the at least two wireless transceivers based on the control of communication.

Claim 18 (canceled)

Claim 19 (previously presented): An article comprising a medium storing instructions that enable a processor-based system to:

receive a query to acquire a channel lock for control of communication from a first one of at least two wireless transceivers;

provide ownership of the channel lock to the first one of the at least two wireless transceivers based on priority information; and

receive data of a communication from the first one of the at least two wireless transceivers.

Claim 20 (canceled)

Claim 21 (previously presented): A processor-based system comprising:

a processor;

a storage operably coupled to said processor to store a priority protocol to track pending transactions associated with at least two wireless transceivers and prioritize one of said at least two wireless transceivers;

at least two wireless transceiver interface devices operably coupled to said processor to provide corresponding gating signals associated with the at least two wireless transceivers; and

an arbitration device operably coupled to said at least two wireless transceiver interface devices to selectively provide communication control to said one of at least two wireless transceivers based on the priority protocol.

Claim 22 (previously presented): The processor-based system of claim 21, wherein said arbitration device to power up or down the at least two wireless transceiver interface devices based on the communication control.

Claim 23 (previously presented): The processor-based system of claim 22, wherein said arbitration device to:

determine the type of each said wireless transceiver;

derive device characteristics and priority information from the priority and the type of each said wireless transceiver; and

send said device characteristics and priority information to each said wireless transceiver.

Claim 24 (previously presented): The processor-based system of claim 21, wherein each said wireless transceiver interface device to:

query said arbitration device to acquire a channel lock for communication control;

in response to an indication from said arbitration device, gain ownership of the channel lock;

open a communication channel for a communication session; and

release the ownership of the channel lock when the communication session is finished.

Claim 25 (previously presented): The processor-based system of claim 24, wherein said arbitration device to:

transfer the ownership of the channel lock to another one of the at least two wireless transceivers when said communication channel becomes available.

Claims 26 -28 (cancel)

Claim 29 (canceled)

Claim 30 (cancel)

Claim 31 (previously presented): A personal computer system comprising:

a processor;

at least two wireless transceivers coupled to the processor, each of the at least two wireless transceivers to provide a gating signal to indicate activity in a corresponding radio device; and

a single antenna coupled to the at least two wireless transceivers to provide radio frequency (RF) signals to and from the corresponding radio devices.

Claim 32 (canceled)

Claim 33 (previously presented): The personal computer system of claim 31, further comprising a controller coupled to receive each of the gating signals and arbitrate a communication channel between the at least two wireless transceivers.

Claim 34 (previously presented): The personal computer system of claim 33, wherein the controller to arbitrate using a priority of each of the at least two wireless transceivers.

Claim 35 (previously presented): The personal computer system of claim 31, wherein the at least two wireless transceivers to query a controller to acquire a channel lock for communication control, in response to an indication from said controller gain ownership of the channel lock, open a communication channel for a communication session, and release the ownership of the channel lock when the communication session is finished.

Claim 36 (previously presented): The personal computer system of claim 35, wherein the controller to transfer the ownership of the channel lock to another one of the at least two wireless transceivers when said communication channel becomes available.

Claim 37 (previously presented): The article of claim 19, further comprising instructions that enable the processor-based system to release the ownership of the channel lock when the communication is completed.